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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/038,298	01/04/2002	John A. R. Spooner	A1036A	1250	
21495	7590 08/13/2003				
CORNING CABLE SYSTEMS LLC P O BOX 489 HICKORY, NC 28603			EXAM	EXAMINER	
			SANGHAVI, HEMANG		
			ART UNIT	PAPER NUMBER	
			2874		
			DATE MAILED: 08/13/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/038,298	SPOONER, JOHN	A. R.				
Office Action Summary	Examiner	Art Unit					
,	Hemang Sanghavi	2874					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1) Responsive to communication(s) filed on <u>08 J</u>	uly 2003 .						
2a) This action is <b>FINAL</b> . 2b) ⊠ Thi	s action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims							
4)⊠ Claim(s) <u>20-39</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>20-39</u> is/are rejected.							
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	w Summary (PTO-413) Paper No(s of Informal Patent Application (PTO					

Application/Control Number: 10/038,298

· Art Unit: 2874

#### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 08, 2003 has been entered.

Applicant's arguments with respect to claims have been considered but are deemed to be moot in view of the new grounds of rejection.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 20-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Delage et al (US 5,602,953) and Carratt et al (US 5,703,984).

Delage et al discloses a composite communication cable comprising an optical sub-unit, the optical sub-unit including a tube surrounding a plurality of optical fibers; an electrical sub-unit; and the optical and electrical sub-units being removably connected at a medial portion (17) between the sub-units by a common jacket material.

Application/Control Number: 10/038,298

Art Unit: 2874

nit: 2874

Delage et al fails to disclose strength members or filaments in the optical subunit for partially decoupling the optical fiber from the tube.

Carratt et al, in a related art, teaches that in order to avoid degradation due to bending, it is necessary to provide strength members surrounding the optical fibers causing mechanically decoupling from the supporting sheath (lines 35-50 of column 1). Note that the rejection is not based on the disclosed invention of Carratt et al, rather from well-known teaching disclosed in Background of The Invention.

From collective teachings of Carratt et al, the ordinary artisan would have found it to be obvious at the time of the invention to provide strength members in the tube of the optical sub unit in Delage et al for the purpose of avoiding degradation in the cable structure, which is highly desirable in the optical cable art.

As to fiber being tight buffer, it is well known in the art to use tight-buffered fibers or loose tube fibers depending upon application of the cable.

From readily commercially available fibers, the ordinary artisan would have found it obvious matter of design choice to choose tight-buffered fiber in the cable of Delage et al for the purpose of providing desirable application cable.

Delage et al fails to disclose the optical fiber with at least one periodic refractive index therein or use of multicore optical fibers.

The optical fibers with the periodic refractive index (grating) are commercially available and well known in the art.

It would have been obvious to one of ordinary skill in the art at the time of the invention to use gratings in the optical fiber of Delage et al because such gratings are

Application/Control Number: 10/038,298

Art Unit: 2874

commonly used in the art to reduce dispersion by reflecting unwanted light signals with unwanted wavelengths.

As to the identification means, it is certainly well known in the art to provide identification means such as color coding, color coating, bar coding, and magnetic stripes on the optical fibers cables and/or strands.

It would have been obvious to one of ordinary skill in the art at the time of the invention to place identification means on the cable of Delage et al because it would allow easier identification of the strands when termination the cable.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cheron et al states that it is well known in the art to provide strength members with optical fibers for decoupling the optical fibers from the sheath (lines 15-20 of column 1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hemang Sanghavi whose telephone number is 703-305-3484. The examiner can normally be reached on Monday-Thursday (8:30 AM-6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on 703-308-4819. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Art Unit: 2874

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Hemang Sanghavi Primary Examiner Art Unit 2874

hs August 11, 2003